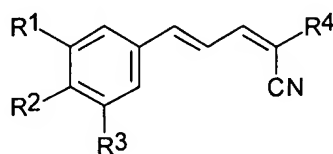


AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A compound of Formula I, or a salt, solvate, or hydrate thereof:



I

wherein

R¹ and R² are each independently selected from H, OH, C₁₋₆alkyl, C₁₋₆alkoxy, C₁₋₆alkylCO₂, NH₂, NH-C₁₋₆alkyl, N(C₁₋₆alkyl)(C₁₋₆alkyl), C₁₋₆alkyl(C=O)NH, C₁₋₆alkyl(C=O)N(C₁₋₆alkyl), SH, S-C₁₋₆alkyl, O-Si(C₁₋₆alkyl)(C₁₋₆alkyl)(C₁₋₆alkyl), NO₂, CF₃, OCF₃ and halo, or R¹ and R² together represent O-C₁₋₆alkyl-O, thereby forming a ring;

R³ is selected from H, OH, C₁₋₆alkyl, C₁₋₆alkoxy, C₁₋₆alkylCO₂, NH₂, NH-C₁₋₆alkyl, N(C₁₋₆alkyl)(C₁₋₆alkyl), C₁₋₆alkyl(C=O)NH, C₁₋₆alkyl(C=O)N(C₁₋₆alkyl), SH, S-C₁₋₆alkyl, O-Si(C₁₋₆alkyl)(C₁₋₆alkyl)(C₁₋₆alkyl), NO₂, halo and CH₂-S-(CH₂)_n Ar;

R⁴ is selected from C(X)R⁵, SO₃Ar, NH₂, NH-C₁₋₆alkyl, N(C₁₋₆alkyl)(C₁₋₆alkyl), P(O)(OH)₂, P(O)(OC₁₋₆alkyl)₂, and C(NH₂)=C(CN)₂;

X is selected from O, S, NH and N-C₁₋₆alkyl;

R⁵ is selected from NH₂, OH, NH(CH₂)_pAr, NH(CH₂)_pOH, (CH₂)_pOC₁₋₆alkyl, C₁₋₆alkyl, C₁₋₆alkoxy, NHNH₂, NHC(O)NH₂, NHC(O)C₁₋₆alkoxy, N-morpholino and N-pyrrolidino; and

Ar is an aromatic or heteroaromatic group, unsubstituted or substituted with 1-4 substituents, independently selected from OH, C₁₋₆alkyl, C₁₋₆alkoxy, NH₂, NH-C₁₋₆alkyl, N(C₁₋₆alkyl)(C₁₋₆alkyl), SH, S-C₁₋₆alkyl, NO₂, CF₃, OCF₃ and halo;

n is 0 to 4; and

p is 1-4;

provided that at least one of R¹, R², and R³ is selected from C₁₋₆alkylCO₂, C₁₋₆alkyl(C=O)NH, or C₁₋₆alkyl(C=O)N(C₁₋₆alkyl); or

R¹ and R² together represent O-C₁₋₆alkyl-O, thereby forming a ring.

2. (Withdrawn) The compound according to claim 1, wherein R^1 and R^2 are each independently selected from H, OH, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylCO₂, NH₂, NH- C_{1-4} alkyl, C_{1-4} alkyl(C=O)NH, C_{1-4} alkyl(C=O)N(C_{1-4} alkyl), SH, S- C_{1-4} alkyl, O-Si(C_{1-4} alkyl)(C_{1-4} alkyl)(C_{1-4} alkyl), NO₂, CF₃, OCF₃ and halo, or R^1 and R^2 together represent O- C_{1-6} alkyl-O, thereby forming a ring.
3. (Withdrawn) The compound according to claim 2, wherein R^1 and R^2 are each independently selected from the group consisting H, OH, OCH₃, CH₃CO₂, O-Si(CH₃)₂(^tBu), S-Me, SH, CH₃CONH, CH₃CONCH₃, and NO₂.
4. (Withdrawn) The compound according to claim 3, wherein R^1 and R^2 are both OH or R^1 and R^2 are both OCH₃.
5. (Withdrawn) The compound according to claim 4, wherein R^1 is OCH₃ and R^2 is OH.
6. (Original) The compound according to claim 1, wherein R^3 is selected from H, OH, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylCO₂, NH₂, NH- C_{1-4} alkyl, N(C_{1-4} alkyl)(C_{1-4} alkyl), C_{1-4} alkyl(C=O)NH, C_{1-4} alkyl(C=O)N(C_{1-4} alkyl), SH, S- C_{1-4} alkyl, NO₂ and halo.
7. (Currently Amended) The compound according to claim 6, wherein R^3 is selected from ~~selected from~~ H, OH, OCH₃, CH₃CO₂, SH, SMe, NO₂, CH₃CONH, CH₃CONCH₃, and halo.
8. (Withdrawn) The compound according to claim 1, wherein R^1 , R^2 , and R^3 are each independently selected from H, C_{1-4} alkylCO₂, C_{1-6} alkyl(C=O)NH, and C_{1-6} alkyl(C=O)N(C_{1-6} alkyl), provided that at least one of R^1 , R^2 , and R^3 is not hydrogen.
9. (Currently Amended) The compound according to claim 1, wherein R^4 is selected from ~~selected from~~ C(X)R⁵ and C(NH₂)=C(CN)₂.
10. (Original) The compound according to claim 9, wherein R^4 is C(X)R⁵.

11. (Currently Amended) The compound according to claim 10, wherein X is selected ~~from~~selected from O and S.

12. (Currently Amended) The compound according to claim 10, wherein R^5 is selected ~~from~~selected from NH_2 , OH, $NH(CH_2)_pAr$, $NH(CH_2)_pOH$ and $C_{1-4}alkoxy$.

13. (Original) The compound according to claim 12, wherein p is 1-3.

14. (Currently Amended) The compound according to claim 13, wherein R^5 is selected ~~from~~selected from NH_2 , OH, $NH(CH_2)_pAr$, $NH(CH_2)_pOH$ and OCH_3 .

15. (Original) The compound according to claim 14, wherein p is 1-2.

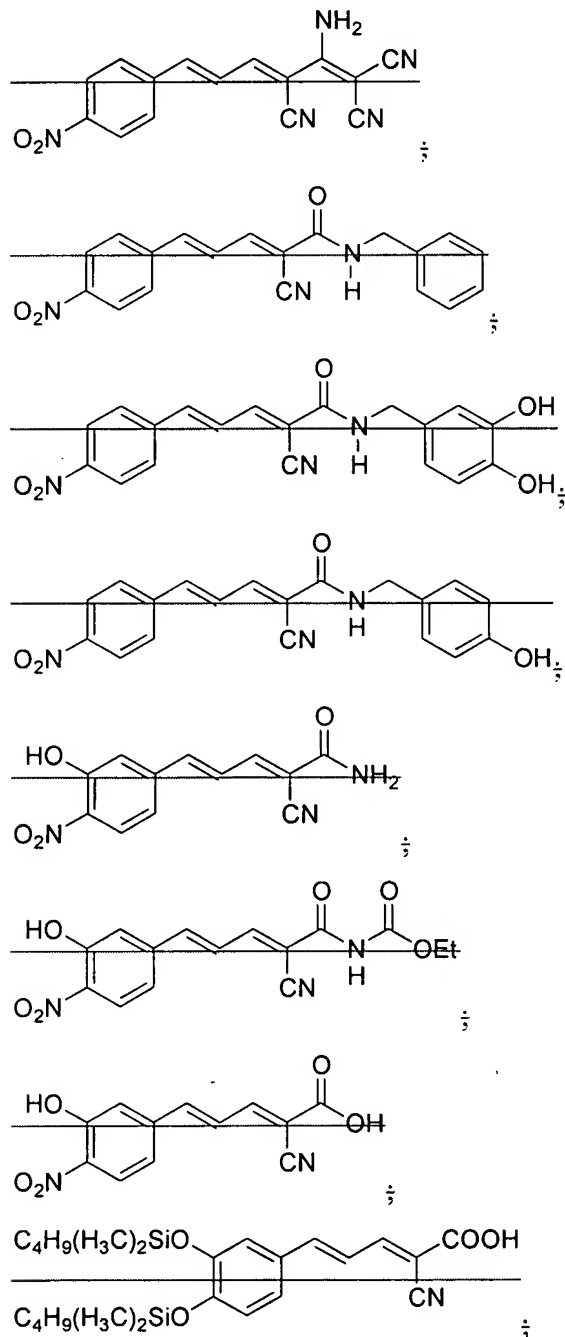
16. (Currently Amended) The compound according to claim 1, wherein Ar is an unsubstituted phenyl group or a phenyl group substituted with 1-4 substituents optionally selected ~~from~~selected from OH, $C_{1-6}alkyl$, $C_{1-6}alkoxy$, NH_2 , $NH-C_{1-6}alkyl$, $N(C_{1-6}alkyl)(C_{1-6}alkyl)$, SH, $S-C_{1-6}alkyl$, NO_2 , CF_3 , OCF_3 and halo.

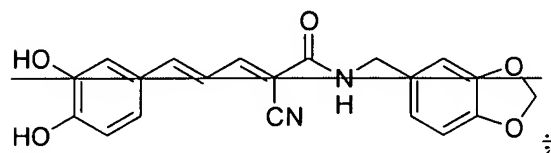
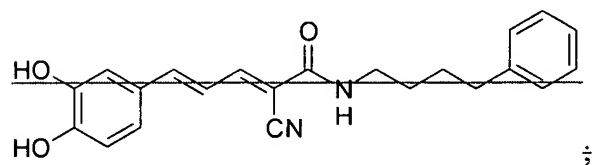
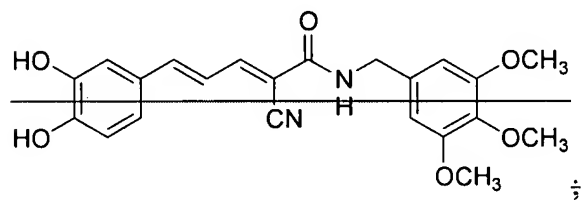
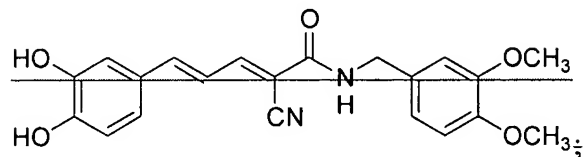
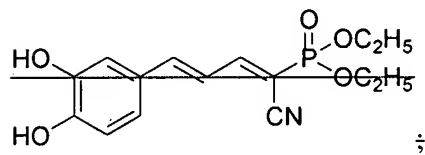
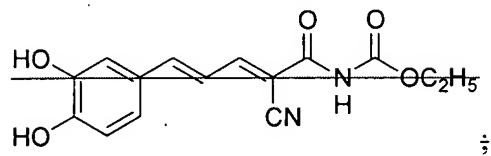
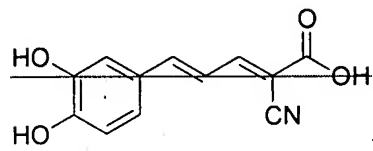
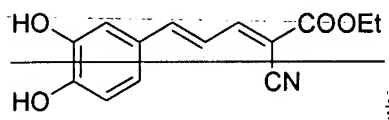
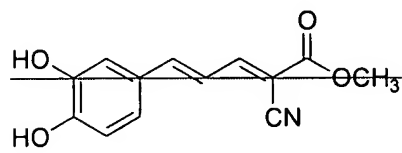
17. (Currently Amended) The compound according to claim 14, wherein Ar is an unsubstituted phenyl group or a phenyl group substituted with 1-4 substituents optionally selected ~~from~~selected from OH, $C_{1-6}alkyl$, $C_{1-6}alkoxy$, NH_2 , $NH-C_{1-6}alkyl$, $N(C_{1-6}alkyl)(C_{1-6}alkyl)$, SH, $S-C_{1-6}alkyl$, NO_2 , CF_3 , OCF_3 and halo.

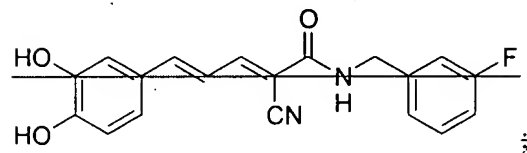
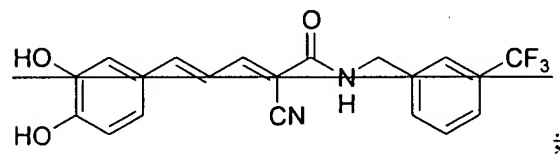
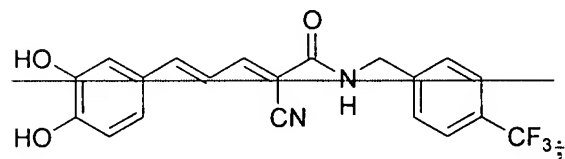
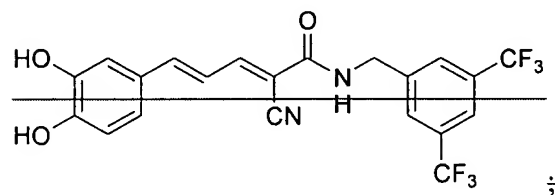
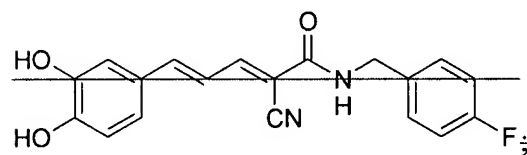
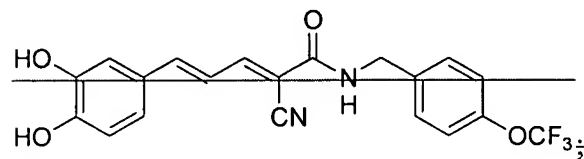
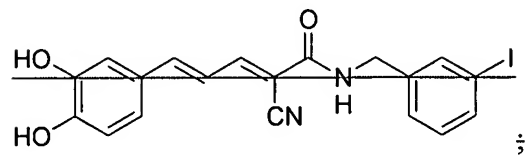
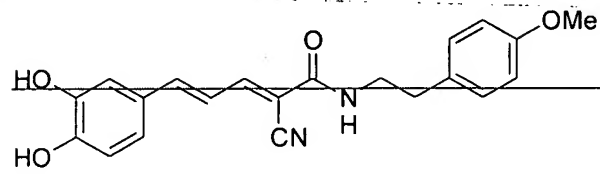
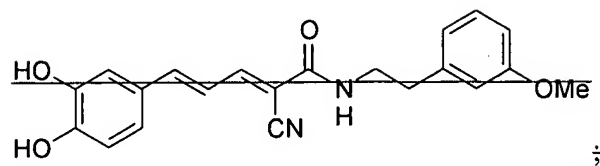
18. (Currently Amended) The compound according to any of claims 16 and 17, wherein Ar is an unsubstituted phenyl group or phenyl group substituted with 1-2 substituents optionally selected ~~from~~selected from OH, $C_{1-4}alkyl$, $C_{1-4}alkoxy$, NH_2 , $NH-C_{1-4}alkyl$, $N(C_{1-4}alkyl)(C_{1-4}alkyl)$, SH, $S-C_{1-4}alkyl$, NO_2 , CF_3 , OCF_3 and halo.

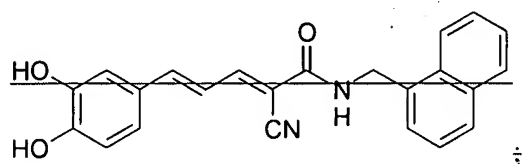
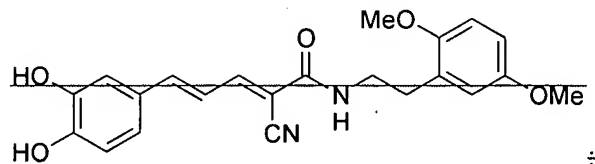
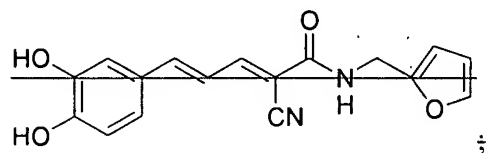
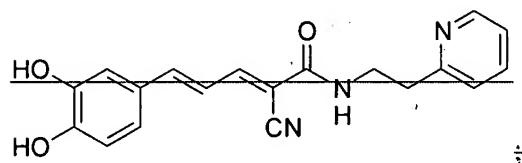
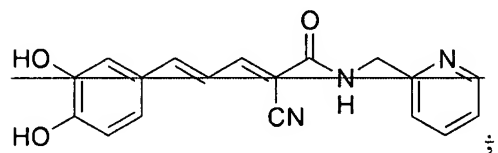
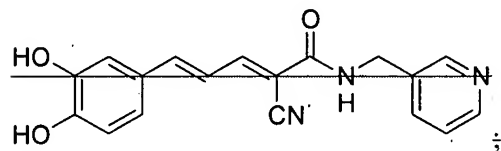
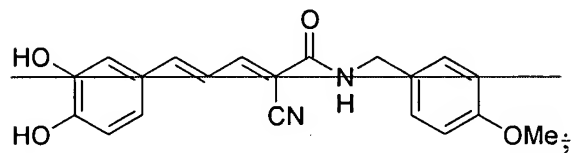
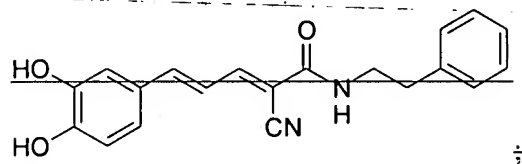
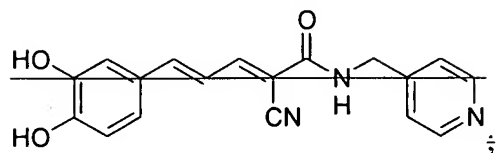
19. (Original) The compound according to claim 18, wherein Ar is an unsubstituted phenyl group or phenyl group substituted with 1-2 substituents optionally selected from OH, OCH₃, NH₂, NHCH₃, N(CH₃)₂, SH, SCH₃, CF₃, OCF₃ and halo.

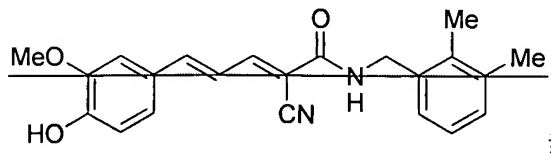
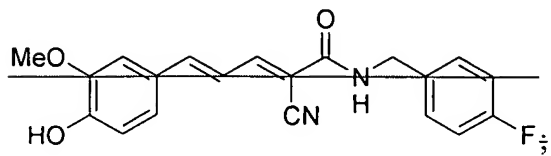
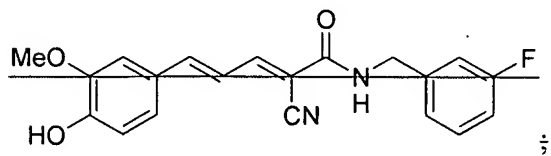
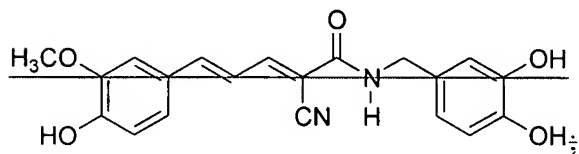
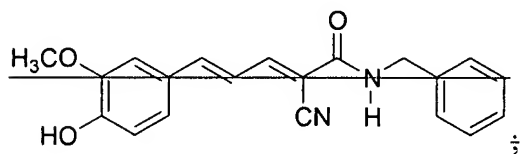
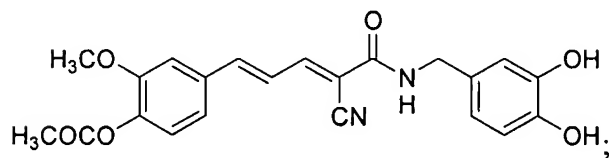
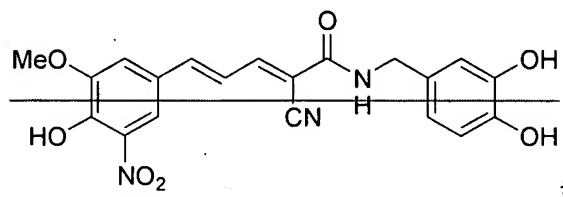
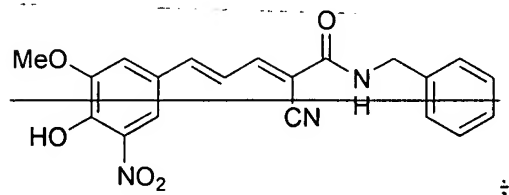
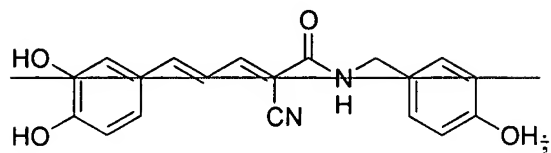
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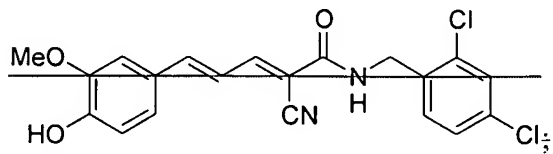
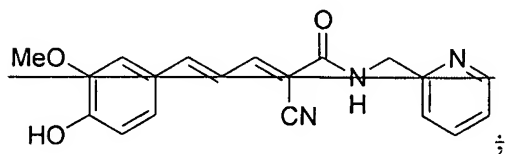
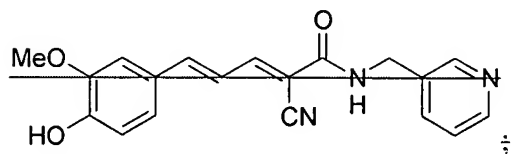
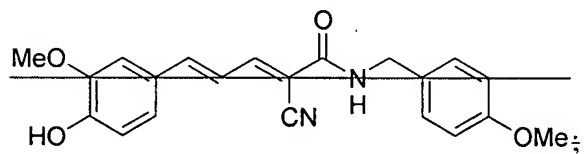
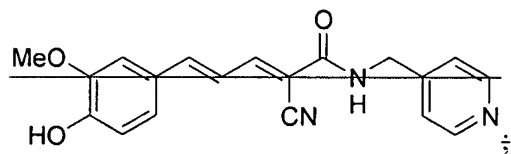
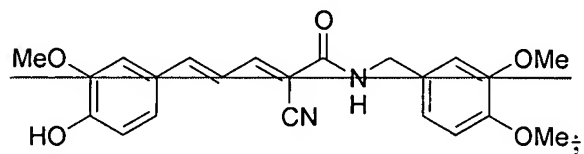
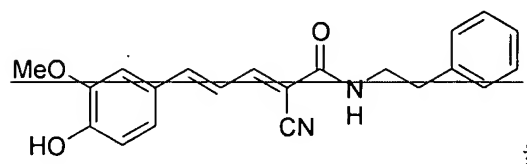
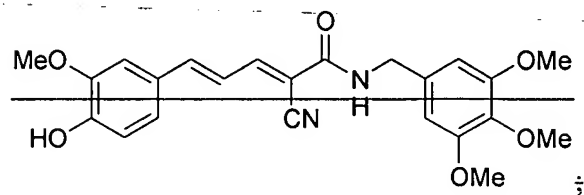
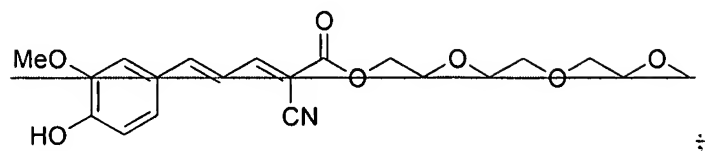


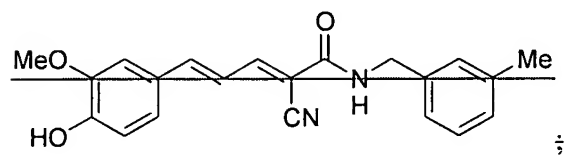
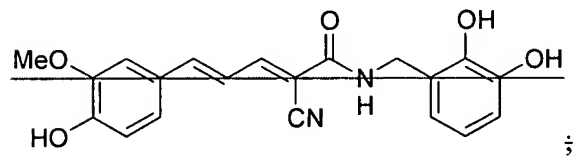
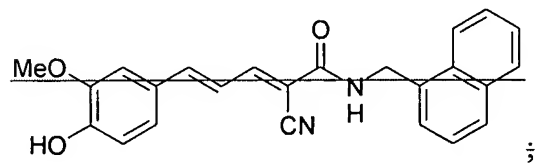
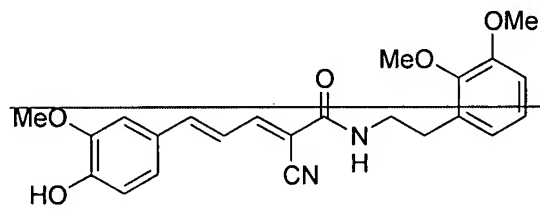
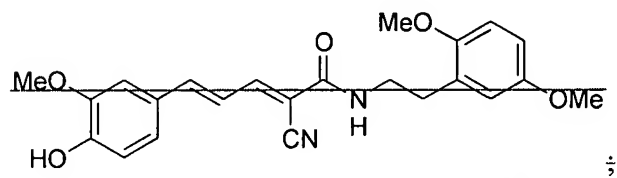
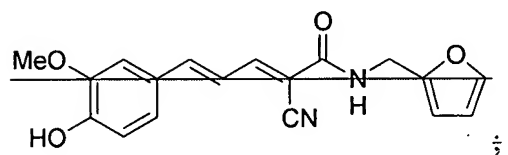
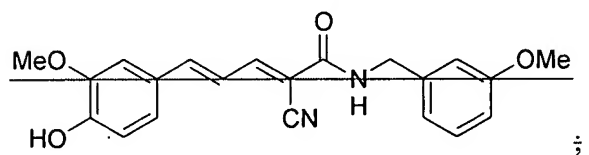
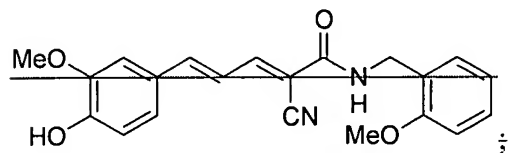
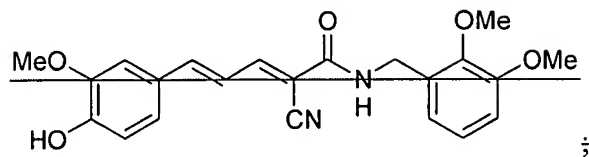


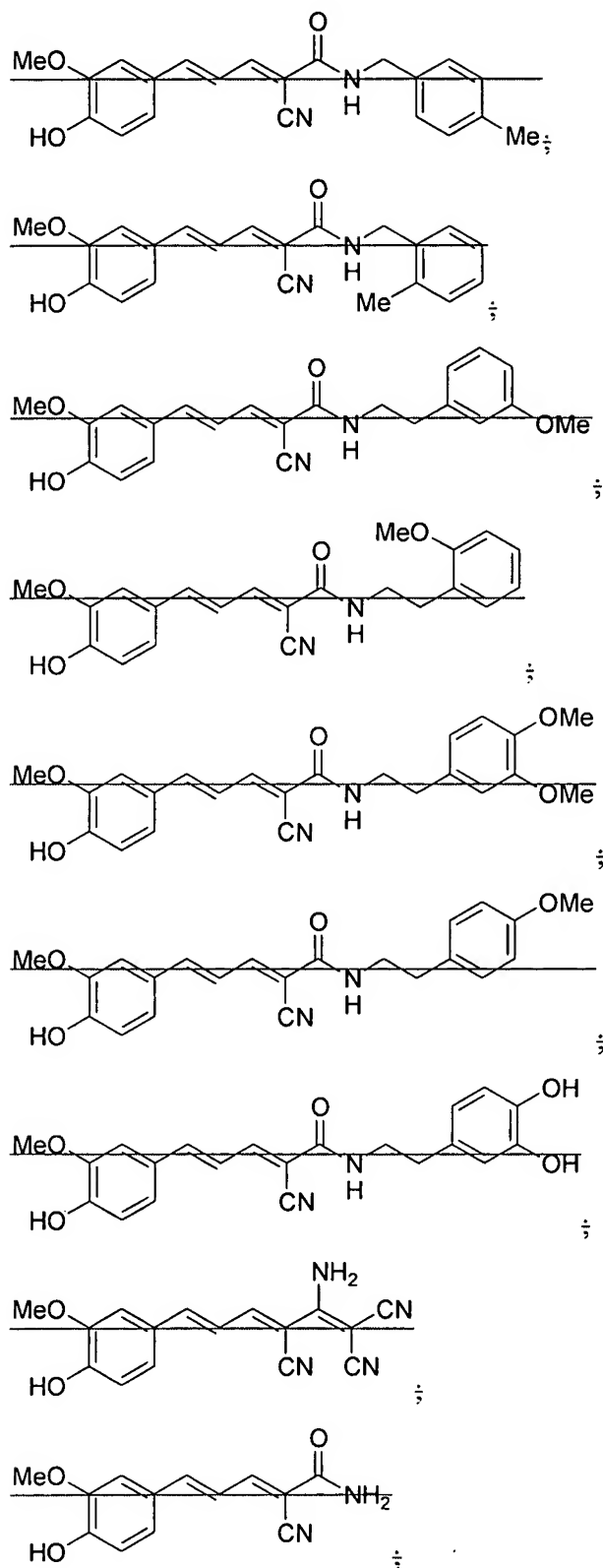


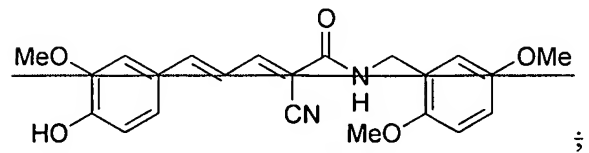
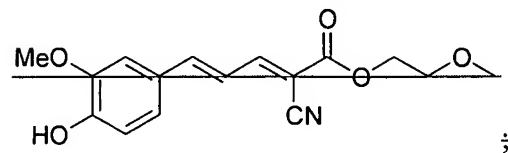
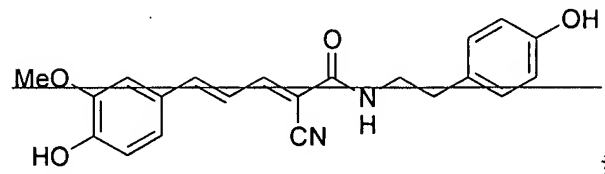
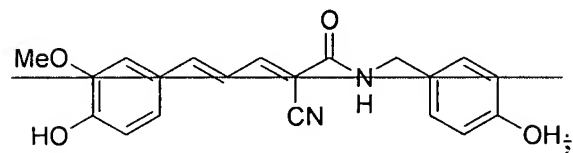
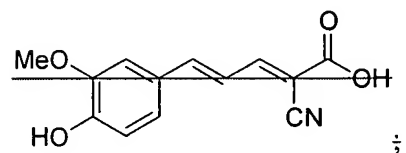
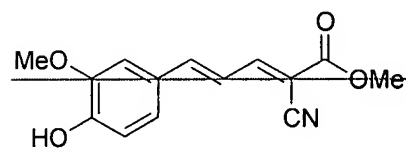
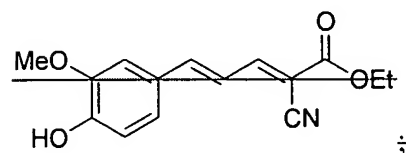
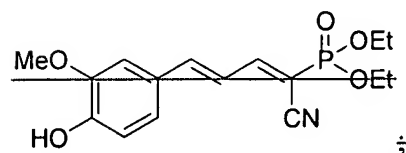
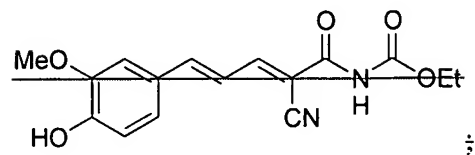


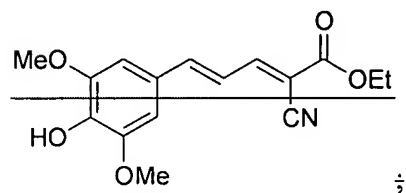
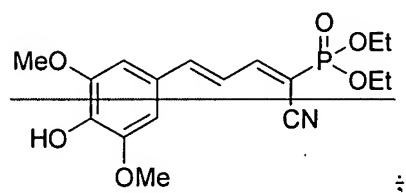
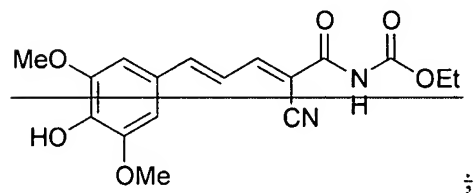
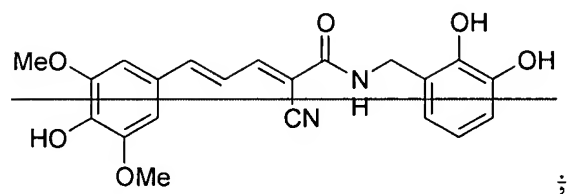
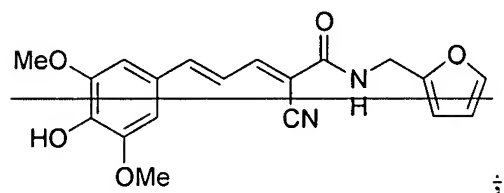
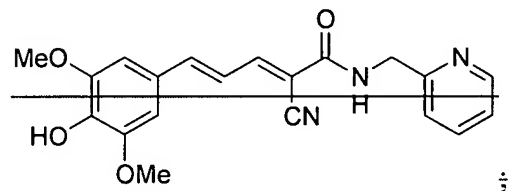
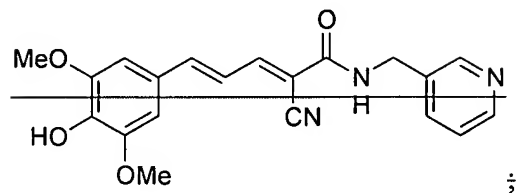


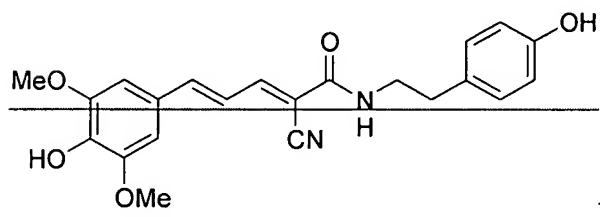
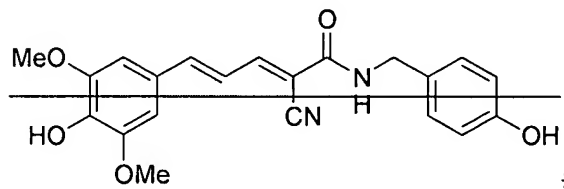
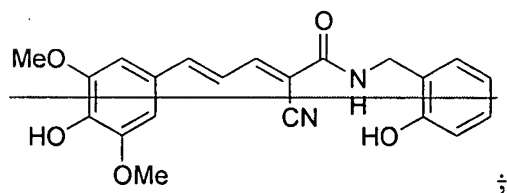
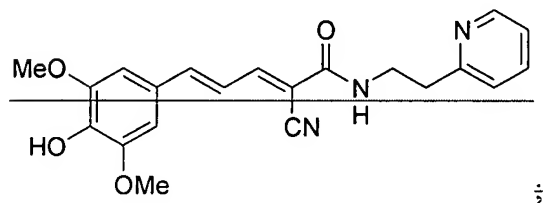
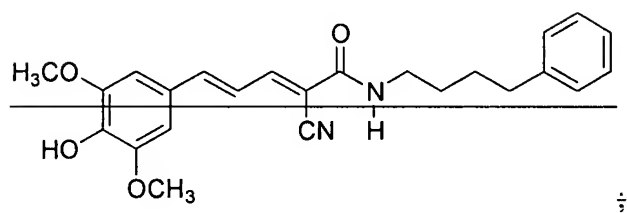
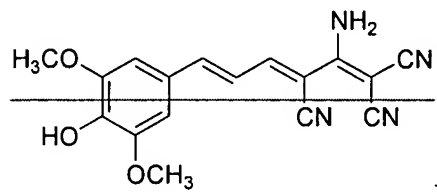
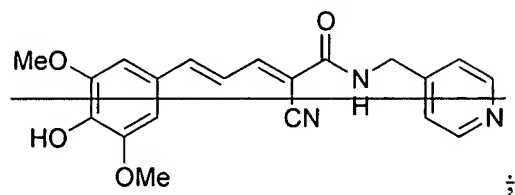


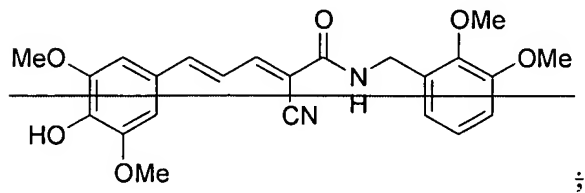
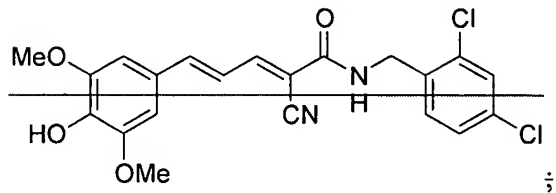
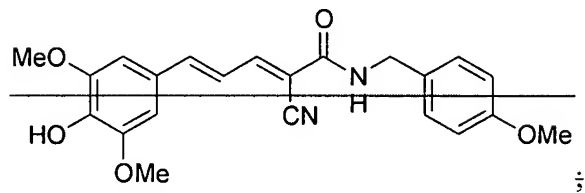
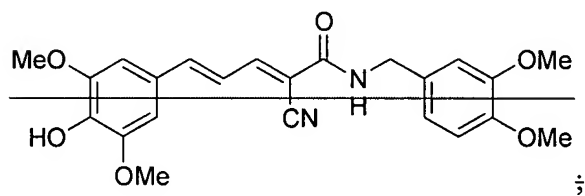
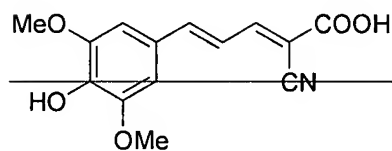
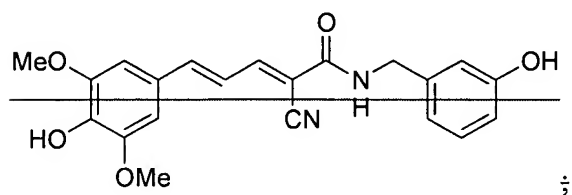
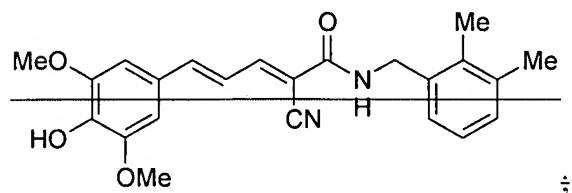
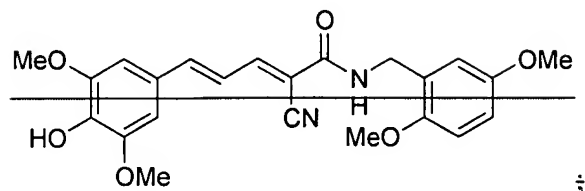


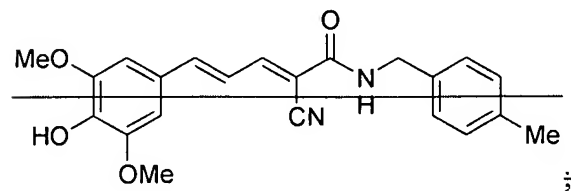
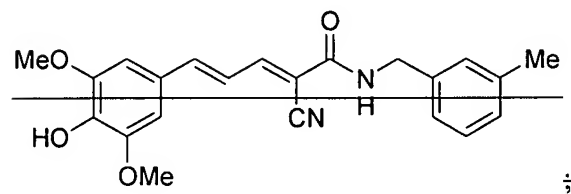
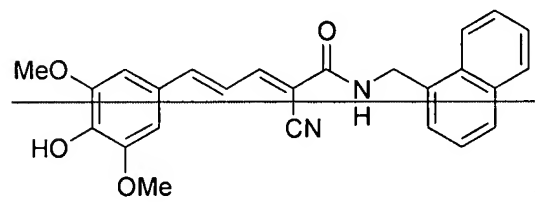
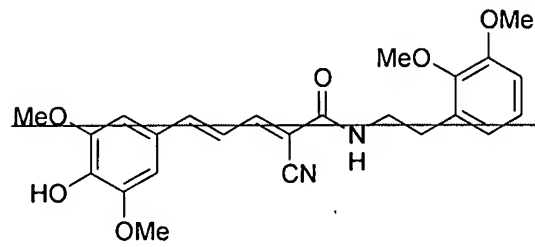
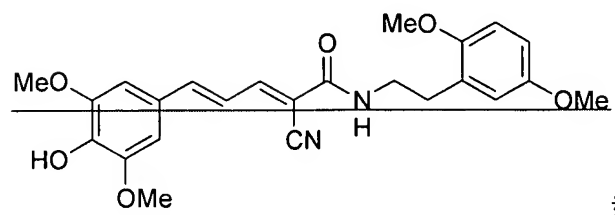
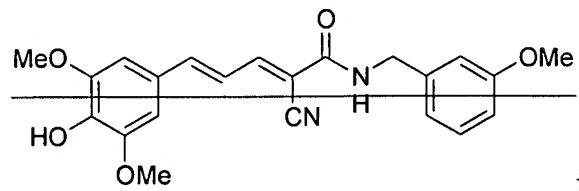
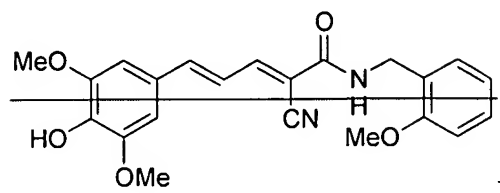




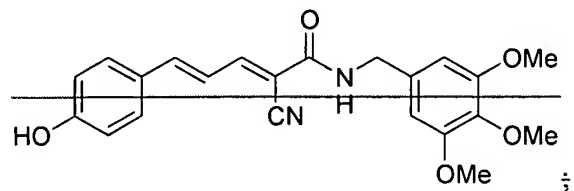
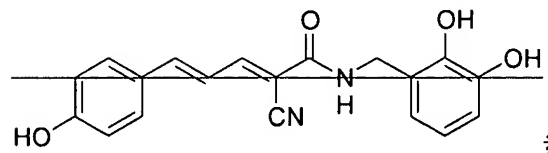
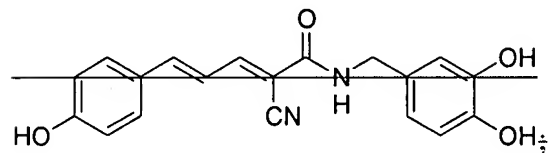
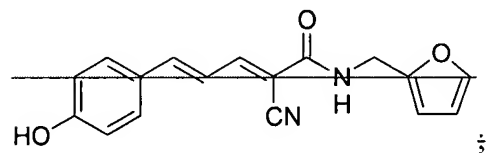
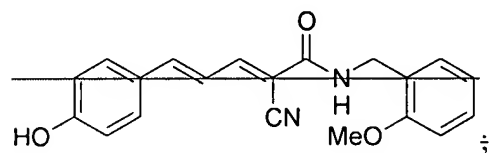
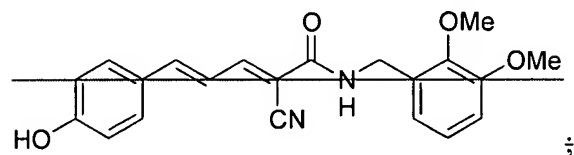
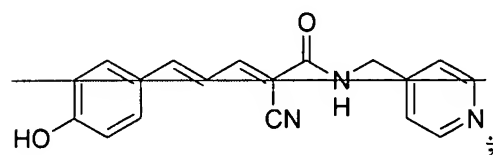
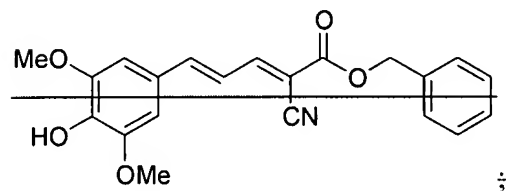
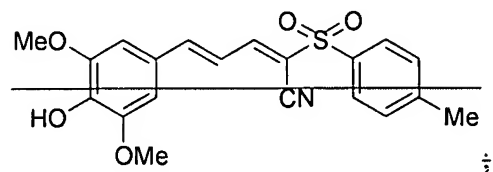


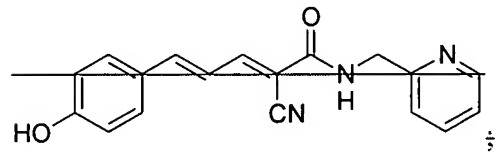
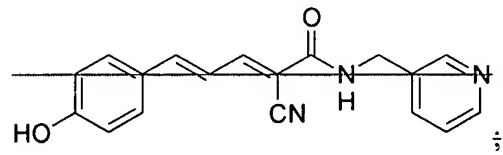
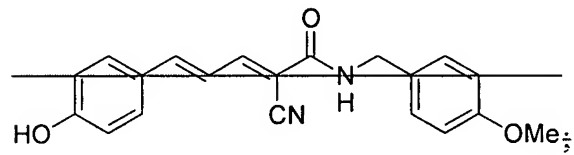
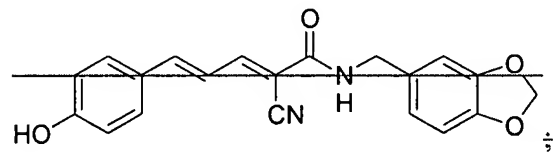
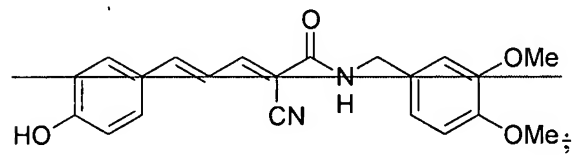
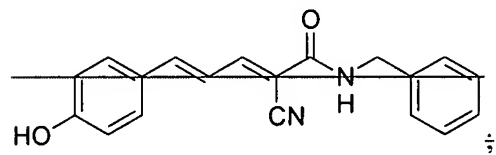
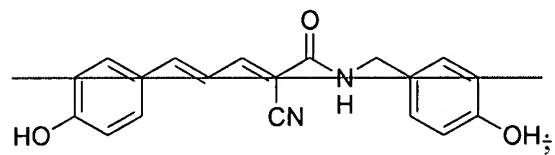
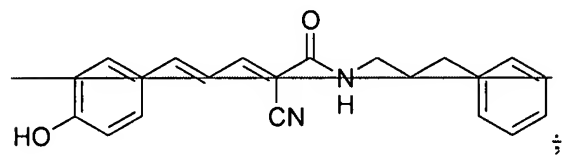
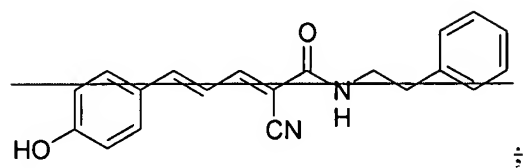


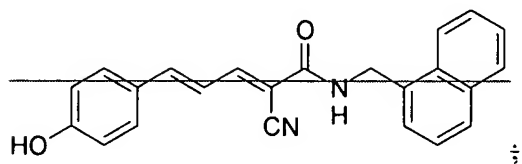
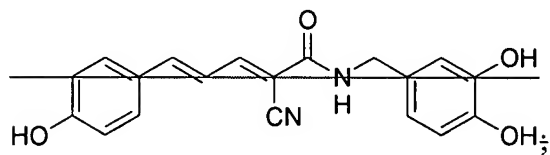
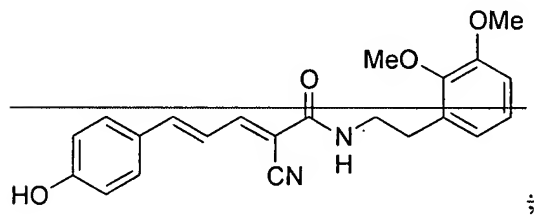
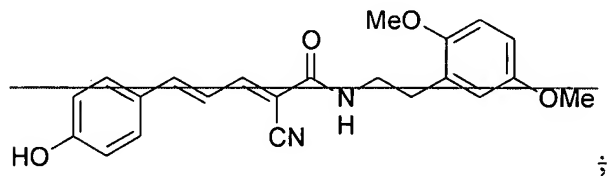
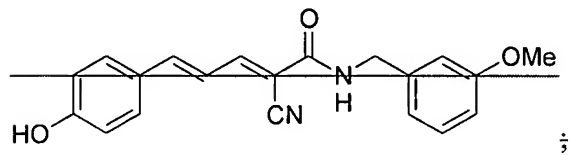
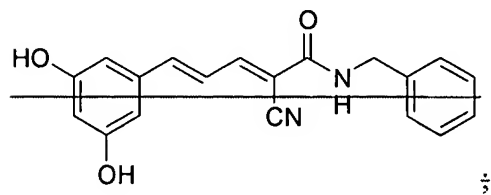
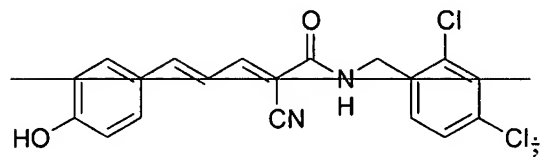
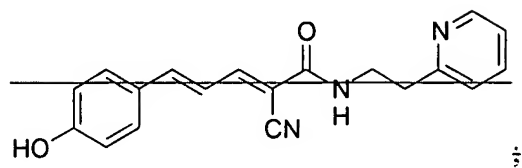


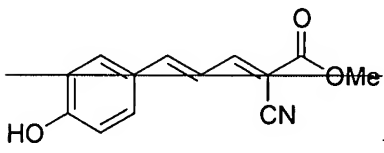
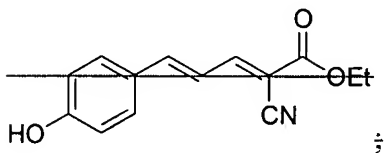
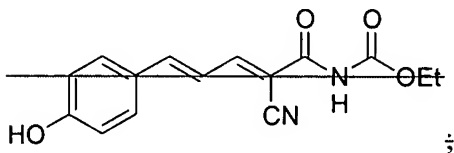
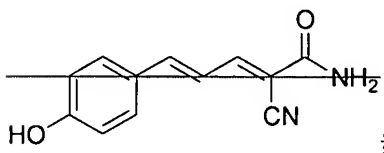
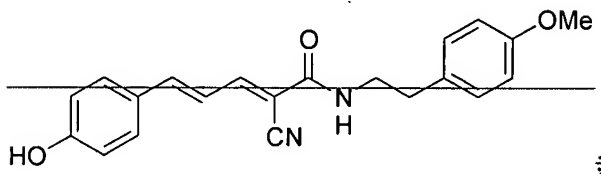
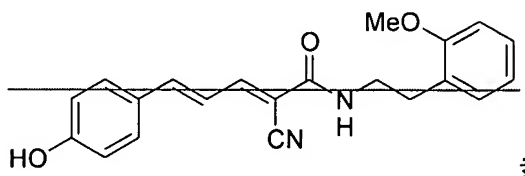
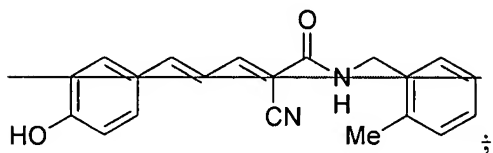
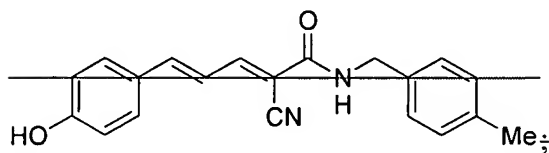
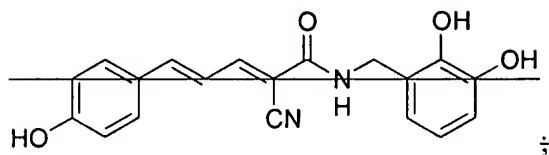


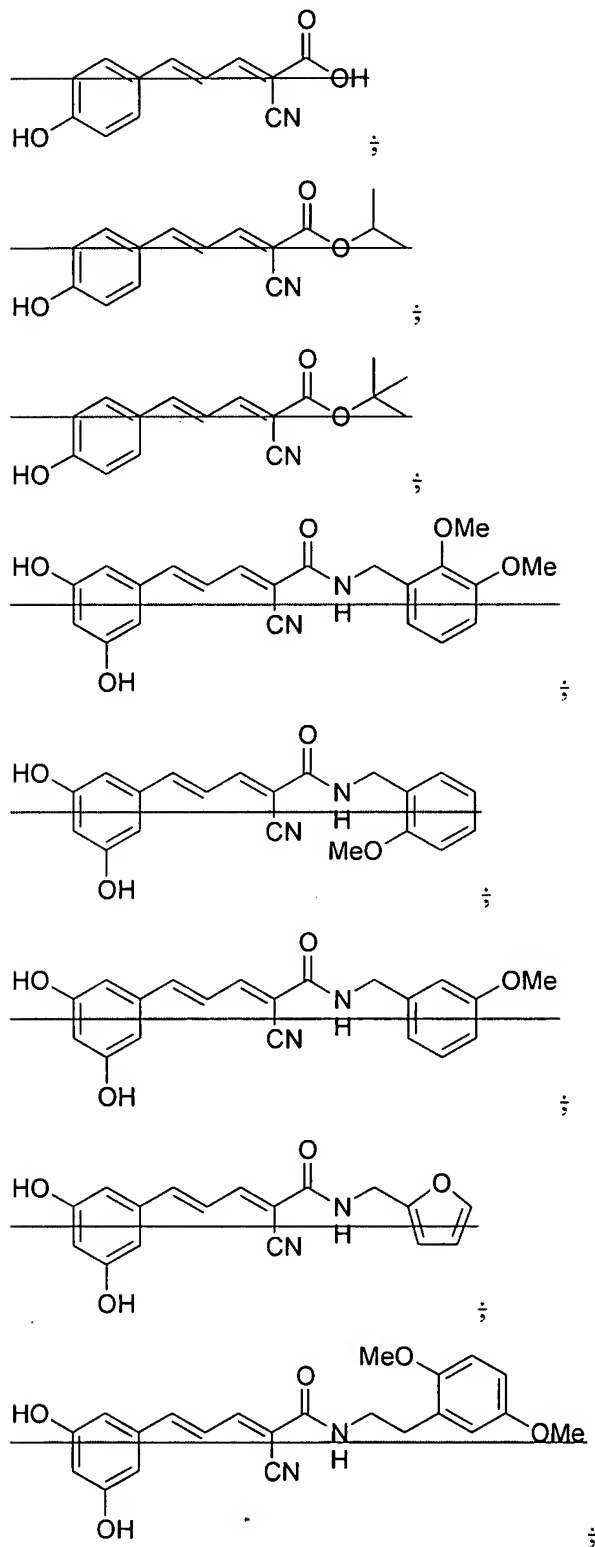


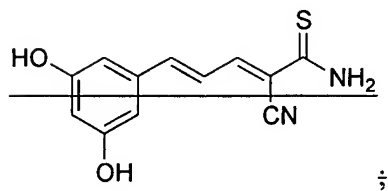
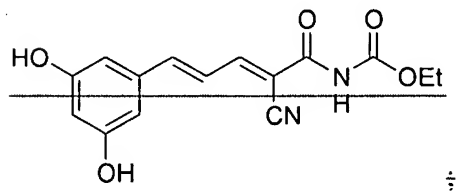
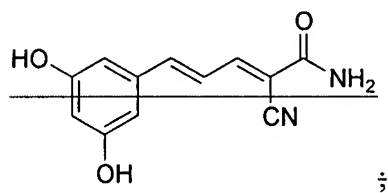
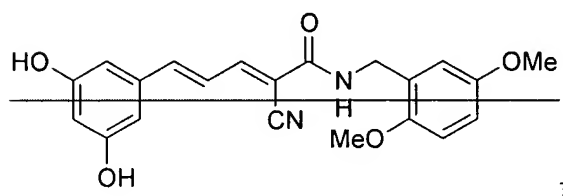
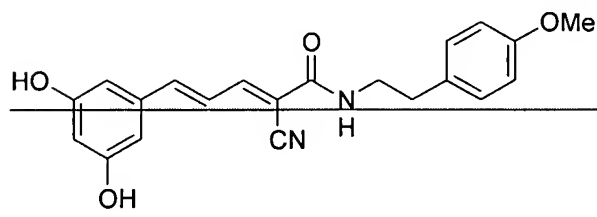
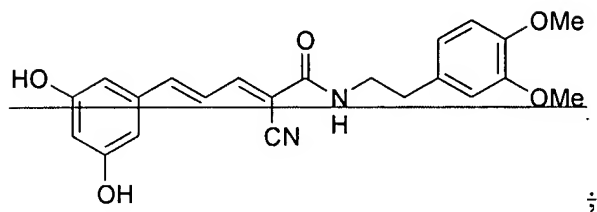
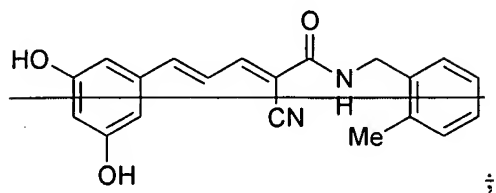


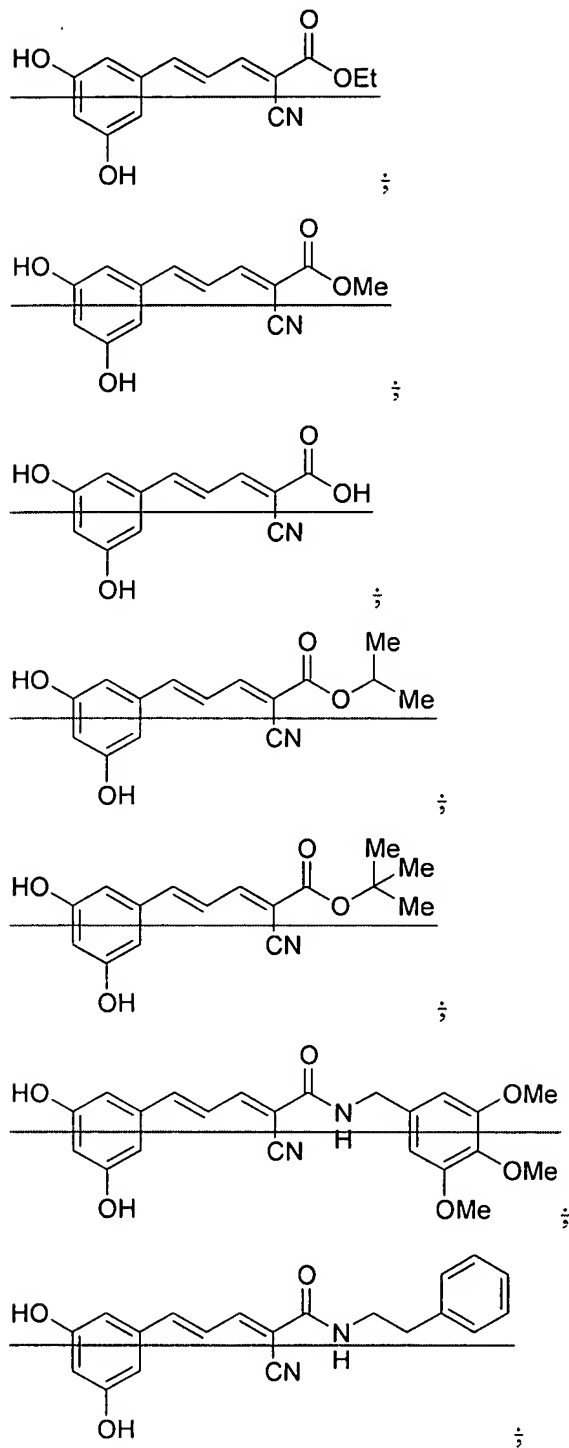


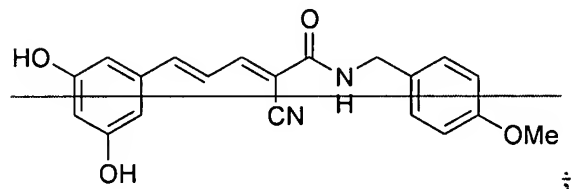
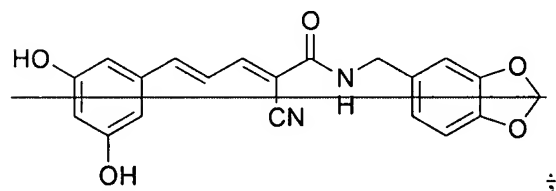
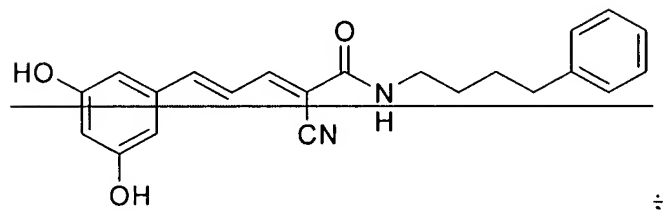
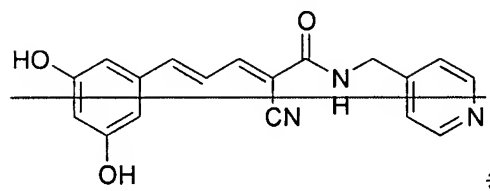
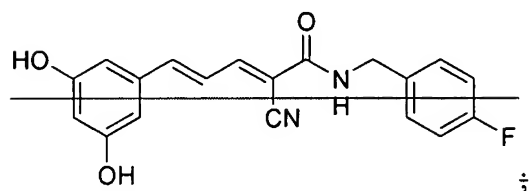
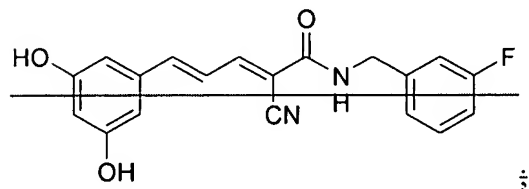
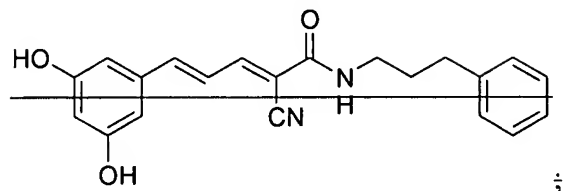


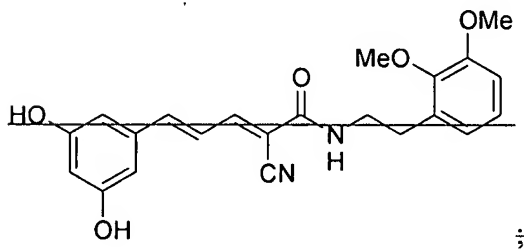
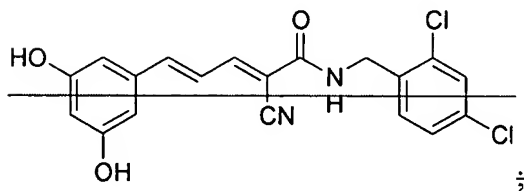
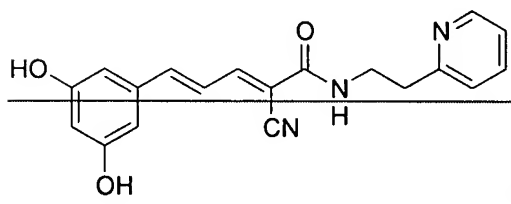
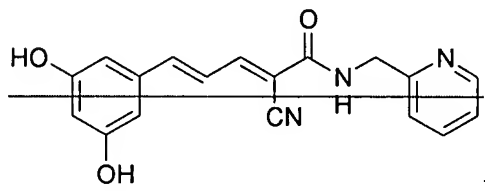
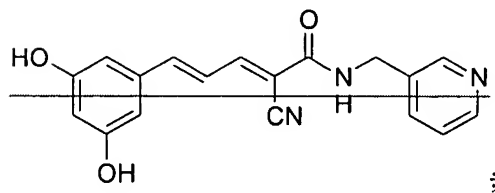
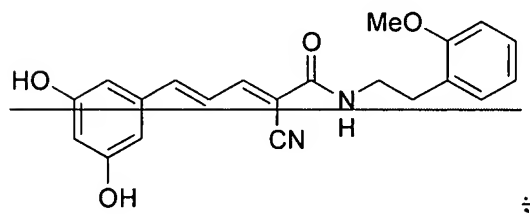
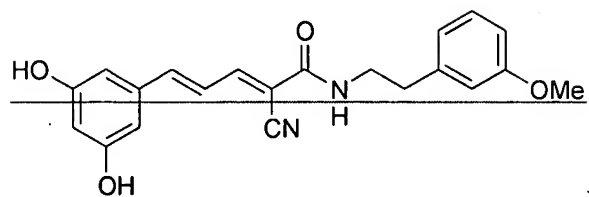


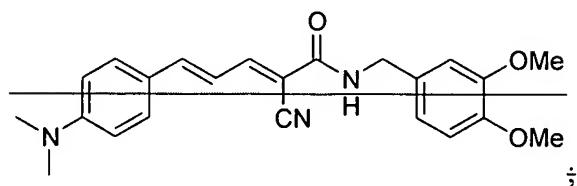
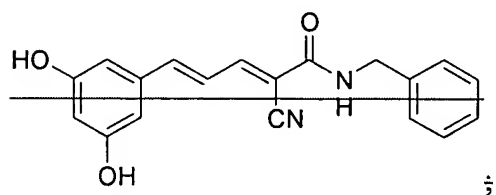
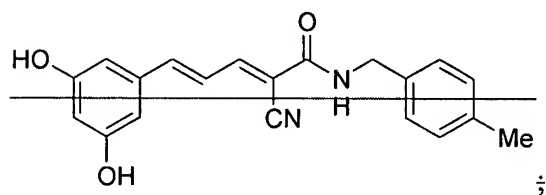
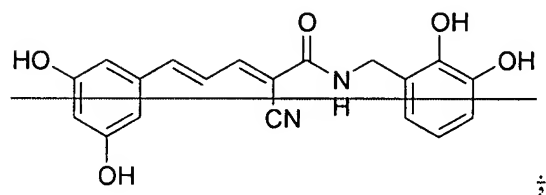
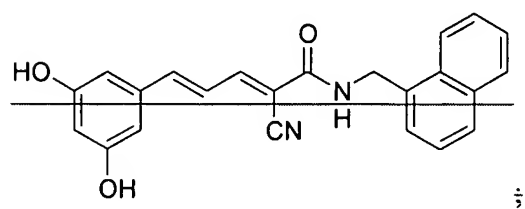
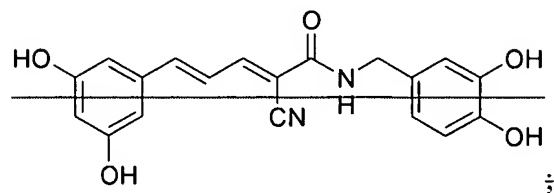
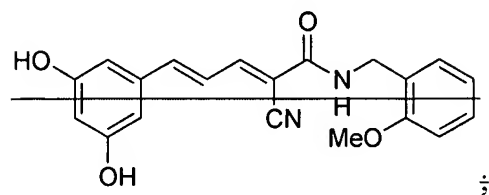


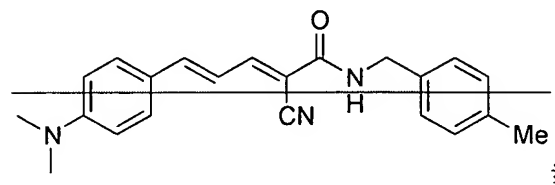
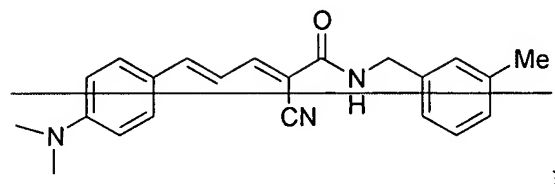
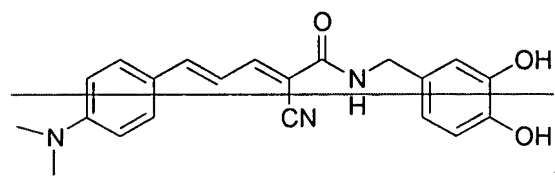
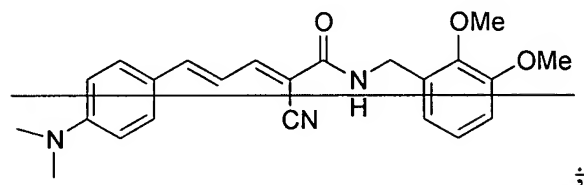
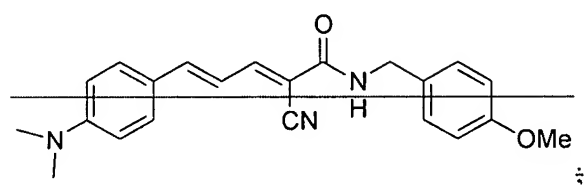
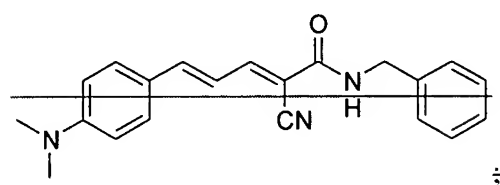
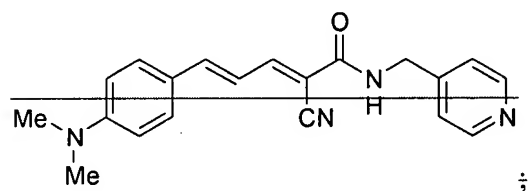
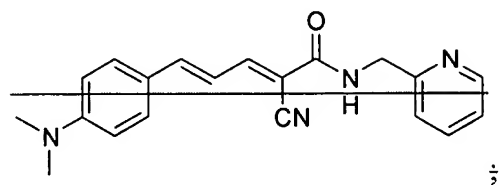


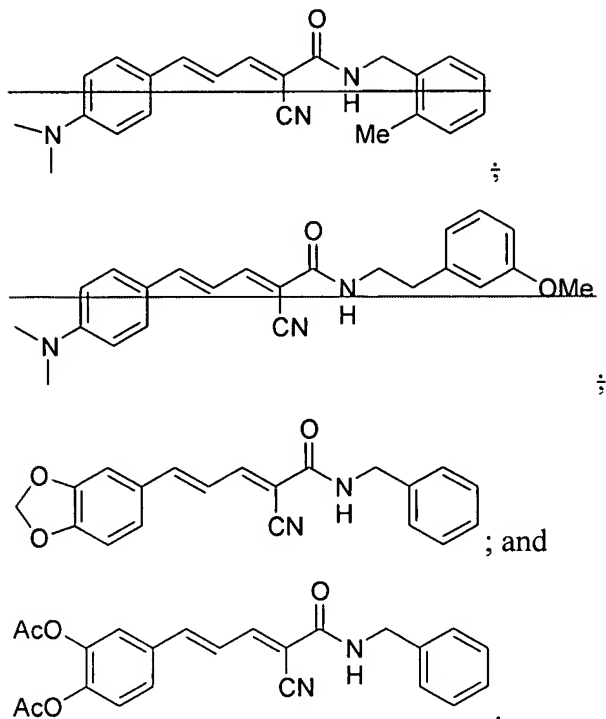












21. (Currently Amended) A composition comprising a compound according to ~~any one~~ of-claims 1 to 20 in admixture with a pharmaceutically acceptable diluent or carrier.

22-29. (Cancelled).

30. (Withdrawn, Currently Amended) A method of modulating cell proliferation comprising administering an effective amount of a compound capable of modulating cell proliferation according to ~~any one of~~ claims 1 to 20 or a composition according to claim 21 to a cell or animal in need thereof.

31. (Withdrawn, Currently Amended) A method of inhibiting cell proliferation comprising administering an effective amount of a compound capable of inhibiting cell proliferation according to ~~any one of~~ claims 1 to 20 or a composition according to claim 21 to a cell or animal in need thereof.

32. (Withdrawn, Currently Amended) A method of inhibiting cancer cell proliferation comprising administering an effective amount of a compound capable of inhibiting cancer cell proliferation according to ~~any one of claims 1 to 20~~ or a composition according to claim 21 to a cell or animal in need thereof.

33. (Withdrawn, Currently Amended) A method of treating cancer comprising administering an effective amount of a compound capable of inhibiting cancer cell proliferation according to ~~any one of claims 1 to 20~~ or a composition according to claim 21 to a cell or animal in need thereof.

34. (Withdrawn) A method according to claim 32 or 33 wherein said cancer is a hematopoietic cell cancer.

35. (Withdrawn) A method according to claim 32 or 33 wherein said cancer is a leukemia, a lymphoma, a myeloma or a carcinoma.

36. (Withdrawn) A method according to claim 35 wherein said leukemia is acute lymphoblastic leukemia, aggressive Philadelphia+ leukemia, acute myelocytic leukemia, chronic myeloid leukemia, chronic lymphocytic leukemia or juvenile myelomonocyte leukemia,

37. (Withdrawn) A method according to claim 35 wherein said leukemia is acute lymphoblastic leukemia.